



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

spectrum, including X-rays," by R. A. Millikan, D. L. Webster, Wm. Duane and A. W. Hull.

The programs consisted of thirty-four papers, six of which were read by title only, presented at four different sessions. The program of eight papers given at the session of Wednesday morning, consisted exclusively of papers relating to acoustics. The average attendance was about eighty-five, the maximum being about one hundred and twenty-five. The program was as follows:

*Variation of transparency to total radiation with temperature of source:* S. LEROY BROWN.

*The dissipation of heat by various surfaces in still air:* T. S. TAYLOR.

*The influence of air velocity and the angle of incidence on the dissipation of heat:* T. S. TAYLOR.

*The measurement of thermal expansion of metals at ordinary temperatures:* CHARLES D. HODGMAN.

*A method for determining the photographic absorption of lenses:* G. W. MOFFITT.

*Defects in centered quadric lenses:* IRWIN ROMAN.

*The sinker method applied to the rapid and accurate determination of specific gravities:* N. W. CUMMINGS. (Read by title.)

*Amplification of currents in the Bunsen flame:* C. W. HEAPS.

*A new type of non-inductive resistance:* H. L. DODGE.

*Some laboratory uses for the contract rectifier:* J. C. JENSEN.

*An undamped wave method of determining dielectric constants of liquids:* W. H. HYSLOP and A. P. CARMAN. (Read by title.)

*Difficulties in the theory of rain formation:* W. J. HUMPHREYS.

*A physical theory of ocean or reservoir temperature distributions, regarded as effects of solar radiation, evaporation and the resulting convection:* GEO. F. McEWEN.

*Electromagnetic induction and relative motion:* W. F. G. SWANN.

*The influence of blowing pressure on pitch of organ pipes:* ARTHUR C. LUNN.

*A photographic study of explosions in gases:* JOHN B. DUTCHER.

*A photographic study of sound pulses through crooked and curved tubes, with deductions concerning telephone mouthpieces, phonograph horns, etc.:* ARTHUR L. FOLEY.

*A photographic method of measuring the instantaneous velocity of sound waves at points near the source:* ARTHUR L. FOLEY.

*A possible standard of sound—I., study of operating conditions; II., study of wave form:* CHAS. T. KNIPP.

*The performance of conical horns:* G. W. STEWART.

*A photographic study of the wave-form of sounds from large guns in action:* DAYTON C. MILLER.

*The calibration of a round chamber and sound sources and the measurement of sound transmission of simple partitions:* PAUL E. SABINE.

*Transmissions of sound through walls:* F. R. WATSON.

*Charcoal absorption and cyclic changes:* THOS. E. DOUBT.

*The heat of vaporization and work of ionization:* C. S. FAZEL. (Read by title.)

*Energy content of characteristic radiations:* CHESTER W. RICE.

*The spectrum of radium emanation:* R. E. NY-SWANDER, S. C. LIND and R. B. MOORE.

*The Zeeman effect for electric furnace spectra:* ARTHUR S. KING. (Read by title.)

*Critical potentials of the "L" series of platinum:* DAVID L. WEBSTER.

*On the possibility of pulling electrons from metals by powerful electric fields:* R. A. MILLIKAN and B. E. SHACKELFORD.

*On the recoil of Alpha particles from light atoms:* L. B. LOEB. (Read by title.)

*Reactive hydrogen in the electrical discharge:* GERALD L. WENDT and ROBERT S. LANDAUER. (Read by title.)

*The construction and design of a device permitting the application of a current pulse for a pre-determinate number of milliseconds:* LYNDLEY PYLE.

*The spectral transmission of various glasses:* HENRY P. GAGE.

DAYTON C. MILLER,  
Secretary

## SCIENCE

**A Weekly Journal devoted to the Advancement of Science, publishing the official notices and proceedings of the American Association for the Advancement of Science**

Published every Friday by

**THE SCIENCE PRESS**  
LANCASTER, PA. GARRISON, N. Y.  
NEW YORK, N. Y.

Entered in the post-office at Lancaster, Pa., as second class matter